

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number
WO 2005/044906 A1

(51) International Patent Classification⁷: **C08K 5/5313**

(21) International Application Number:
PCT/IB2003/004986

(22) International Filing Date:
7 November 2003 (07.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **ITAL-MATCH CHEMICALS S.P.A.** [IT/IT]; Via P. Chiesa, 7/13, I-16149 Genova (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **COSTANZI, Silvestro** [IT/IT]; c/o Italmatch Chemicals S.p.A., Via P. Chiesa, 7/13, I-16149 Genova (IT). **LEONARDI, Maurizio** [IT/IT]; c/o Italmatch Chemicals S.p.A., Via P. Chiesa, 7/13, I-16149 Genova (IT).

(74) Agent: **TRUPIANO, Federica**; Marietti, Gislon e Trupiano S.r.l., Via Larga, 16, I-20122 Milan (IT).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **HALOGEN-FREE FLAME RETARDANT POLYCARBONATE COMPOSITIONS**

(57) Abstract: The present invention relates to a thermoplastic halogen-free flame retardant composition comprising at least an hypophosphorous acid metal salts as halogen-free flame retardant agent, and at least an aromatic polycarbonate resin and/or its blends. The flame retardant composition may in addition comprise additives and fillers. The invention also refers to moulded thermoplastic articles made by using the flame retardant composition.

WO 2005/044906 A1